



	DIST. COUNTY		ROUTE	KILOMETER POS TOTAL PROJEC		SHEET NO.	TOTAI SHEET
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	REGI	STERED EN	GINEER - CI	VIL	REGISTRACE		ETTERNEER :
	PLAN	IS APPROVA	_ DATE		**\Exp		/* <u>/</u> _
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DESIGN NOTES

- 1. Designed in conformance with Bridge Design Specifications (1983 AASHTO Specifications with revisions by Caltrans).
- 2. Live load: HS20-44 truck. Earth pressures: 22.0 kPa/m vertical, 15.7 kPa/m horizontal.
- 3. Unit stresses: f'_{C} = 25 MPa; f_{y} = 400 MPa
- 4. Maximum fill height = 6 m.

GENERAL NOTES

- 1. Plans shall designate: inlet and outlet pipe diameters, upper structure or manhole (if required), lateral pipe diameter and skew (if required), C,H, and H_b . Manhole or lateral may be omitted.
- 2. Upper structure, when required, may be any designated inlet type as shown on Standard Plan D72, D73, D74, D75 or this sheet.
- 3. Risers shall be positioned to either side of the structure as shown.
- 4. Each riser shall have a ladder. For details see Standard Plan D93.
- 5. Thickness of deck shall vary as necessary to provide a level manhole
- 6. Reinforcing steel shall be placed 50 mm clear, except as shown.
- 7. Maximum skew of lateral pipe B is 45°.
- 8. Lateral may be placed in either side wall.
- 9. Where D_1 and/or D_2 are less than 1050 mm, clear distance between side walls shall be 1050 mm. End walls shall be 150 mm thick with #13 @ 300 mm placed both ways.
- 10. Side walls shall be flush with the inside of the inlet and outlet pipes when pipe diameters are 1050 mm or more.
- 11. L is 1500 mm minimum.
- 12. When C is not specified, bring the lateral directly into the wall of the structure.
- 13. When C is specified, contractor may, at his option, bring the lateral directly into the wall for use as an inside form. A collar conforming with the wall thickness and reinforcement as shown in section B-B shall be poured around the pipe.
- 14. When lateral is extended directly into the wall, it shall be mitered as necessary to be flush with wall.
- 15. "b" bars shall extend a minimum of 200 mm on either side of the opening.
- 16. Adjacent to each side of the opening, place additional reinforcement equivalent to half the interrupted main reinforcement.

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	STANDARD DRAWING						STATE OF		BRIDGE NO.			
F	ELEASE 11/8/99 LATE	DESIGN	BY PAUL COTTER	CHECKED KENNY KWONG	RELEASED BY		CALIFORNIA	DIVISION OF STRUCTURES				Č
	FILE xs17-010	DETAILS BY	R. YEE	CHECKED PAUL COTTER	OFFICE CHIEF		DEPARTMENT OF TRANSPORTATION	ISINUCIUNE DESIGN	KILOMETER POST	JUNCTION STRUCTURE		
<u> </u>		SUBMITTED	BY PAUL COTTER	DRAWING 4/99 DATE		DEPARTME					JUNCTION STRUCTURE	
	DS OSD 2147A (METRIC) (REV. 2/25/97)					ORIGINAL SCALE IN MILLIMETERS	40 50 60 70 80 90 100	CU EA	DISREGARD PRIN EARLIER REVISI	ON DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

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